# StorNext® File System Version 2.6

**Syntax conventions:**

- *italics* = replace with a variable
- [ ] = optional component

## cvadmin

| Command | Options | Description |
|---|---|---|
| cvadmin | | Displays the active StorNext FS configuration. Can be used to modify the configuration. |
| | -F *FileSystemName* | Sets the file system (*FileSystemName*) as the active file system. |
| | -H *FSMHostName* | Connects to the StorNext FS on the specified machine (*FSSHostName*). |
| | [ -e command ] | Runs cvadmin and exits. |
| | [ -f *filename* ] | Reads commands from the specified file. |
| | activate *file_system_name* [ *hostname* or *IP address* ] | Activates the file system (*file_system_name*). |
| | debug [ *value* ] | Views or sets the StorNext FS's debugging flags. |
| | disable *groupname* [ read \| write ] | Disables the stripe group (*groupname*) for either reads or writes. |
| | disks [ refresh ] | Displays StorNext FS disk volumes visible to this machine. If the refresh option is used, the volumes are re-scanned. |
| | down *groupname* | Disables access to the stripe group (*groupname*). |
| | enable *groupname* [ read \| write ] | Enables the stripe group (*groupname*) for either reads or writes. |
| | fail *file_system_name* \| *index_number* | Fails over the file system (*file_system_name*). |



| Command | Options | Description |
|---|---|---|
| | filelocks [ yes \| no ] | Enables or disables cluster-wide file/record lock enforcement. |
| | method *groupname* [ rotate \| sticky ] | Modifies the read-back method for the stripe group (*groupname*). |
| | multipath *groupname* [ rotate \| static \| sticky ] | Modifies the multi-path method for the stripe group (*groupname*). |
| | paths | Displays StorNext FS-labeled disks visible to the local system. |
| | quit | Disconnects cvadmin from the StorNext FS and exits. |
| | quotas [ yes \| no ] | Enables or disables quota accounting and enforcement. |
| | quotas get [ user \| group ] *name* | Displays current quota parameters for the user or group (*name*). |
| | quotas set [ user \| group ] *name hardlim softlim timelim* | Sets current quota parameters for the user or group (*name*). |
| | quotacheck | Recalculates the amount of space consumed by all users and groups in the file system. |
| | repquota | Generates quota reports for all users and groups in the file system. |
| | select [ *file_system_name* ] | Selects the file system (*file_system_name*) to view and modify. |
| | show [ *groupname* ] [ long ] | Displays information about stripe groups (*groupname*) associated with the file system. |
| | start *file_system_name* [ *hostname* \| *IP address* ] | Starts the StorNext FS manager for the specified file system (*file_system_name*). |
| | stat | Displays the general status of the file system. |
| | stop *file_system_name* | Stops the StorNext FS manager for the specified file system (*file_system_name*). |
| | up *groupname* | Enables the stripe group (*groupname*). |



| Command | Options | Description |
|---|---|---|
| | who | Queries the client list for the selected file system. |

## cvaffinity

| Command | Options | Description |
|---|---|---|
| cvaffinity | | Establishes an affinity to a stripe group or lists a file's current affinity. |
| | [ -k *key* ] | Indicates where the file system should place the data file. If the *key* parameter is defined, then the data file is placed on stripe groups specified to support this parameter. |
| | [ -l ] | Lists the affinity for the specified file. |
| | [ -d ] | Deletes the affinity from the specified file or directory. |
| | *filename* | File or directory name. |

## cvcp

| Command | Options | Description |
|---|---|---|
| cvcp | | Provides a high speed, multi-threaded copy mechanism to copy directories and tar images to and from the StorNext FS. |
| | *Source* | Source file or directory. |
| | *Destination* | Destination file or directory. |
| | [ -A ] | Disables file pre-allocation. |
| | [ -b *buffers* ] | Sets the number of I/O buffers.<br>Default value: Two times the number of copy threads started. |
| | [ -k *buffer_size* ] | Sets the I/O buffer size.<br>Default value: 4MB |

| Command | Options | Description |
|---|---|---|
| | [ -l ] | Copies the target of symbolic links rather than copying the link itself. |
| | [ -n ] | Prevents recursion through subdirectories. |
| | [ -p *source_prefix* ] | Only copies files that begin with the value of the *source_prefix* parameter. |
| | [ -s ] | Forces allocations to line up on the beginning block modulus of the stripe group. |
| | [ -t *num_threads* ] | Specifies the number of copy threads.<br><br>Default value: 4 |
| | [ -v ] | Displays verbose output about the copied files. |
| | [ -x ] | Retains original permissions from the source file. If set by the super user, also sets sticky and setuid/gid bits. |
| | [ -y ] | If set by the super user, retains ownership and group information. |
| | [ -z ] | Retains original modification times. |

## cvfsck

| Command | Options | Description |
|---|---|---|
| cvfsck | | Checks and repairs a file system. |
| | [ -d ] | Enables internal debugguing. |
| | [ -e ] | Reports statistics on all file extents. |
| | [ -f ] | Reports fragmentation. |
| | [ -g ] | Prints the journal recovery log. |
| | [ -j ] | Executes journal recovery and exits. |
| | [ -J ] | Dumps the raw journal to stdout and exits. For debugging use only. |



| Command | Options | Description |
|---|---|---|
| | [ -K ] | Resets the journal and exits.<br><br>WARNING: Resetting the journal may introduce meta-data inconsistency. Exercise extreme caution when using this option. |
| | [ -l ] | Logs problems to syslog. |
| | [ -n ] | Enables a file system to be checked in a read-only mode. |
| | [ -r ] | Displays where files are placed and moves them to a different stripe group. |
| | [ -T *directory* ] | Places temporary files in the specified directory. |
| | [ -v ] | Displays verbose output. |
| | [ -x ] | Reports statistics for input to a spreadsheet. |
| | *FsName* | Specifies the file system to check. |
| | *FsPath* | Specifies an alternate file system path (other than /usr/cvfs/data) to locate file systems. |

## cvfsid

| Command | Options | Description |
|---|---|---|
| cvfsid | | Displays the StorNext FS system identifier. |

## cvlabel

| Command | Options | Description |
|---|---|---|
| cvlabel | | LabelsStorNext FS disk devices. |
| | -l | Lists available disk devices on the system. |
| | -u *VolumeName* | Unlabels the specified volume (*VolumeName*). |
| | [ -s ] | When used with the -l option, prints the disk device serial number. |



| Command | Options | Description |
|---|---|---|
| | [ -v ] | Displays verbose output about labeling. |
| | [ -q *tag_q_depth* ] | Used to set Command Tag Queue Depth (*tag_q_depth*) on IRIX.<br><br>Default value: 16 |
| | [ -f ] | Forces labeling. |
| | -c | Outputs a cvlabel format template file to stdout. |
| | [ *label_list* ] | File that specifies StorNext disk labels. |

## cvmkdir

| Command | Options | Description |
|---|---|---|
| cvmkdir | | Creates a StorNext directory with an affinity. |
| | [ -k *key* ] | Indicates, to the file system, the affinity to associate with the directory. Once set, the affinity cannot be altered. |
| | *dirname* | Path where the directory is created. |

## cvmkfile

| Command | Options | Description |
|---|---|---|
| cvmkfile | | Creates a pre-allocated file on StorNext FS. |
| | [ -k *key* ] | Indicates where the file system should place the data file. If *key* is defined, the file is placed on stripe groups specified to support *key*. |
| | [ -p ] | Forces the allocation and subsequent expansions to fit as multiples of the *InodeExpandMin* parameter. |
| | [ -s ] | Forces the allocation to begin on a stripe-aligned block. |
| | [ -w ] | Sets the file size to the *size* parameter. |

| Command | Options | Description |
|---|---|---|
| | [ -z ] | Causes the file to physically zero out. |
| | *size* [ k \| m \| g ] | Specifies the file size in bytes. If appended with k, m or g, the value represents kilobytes, megabytes or gigabytes. |
| | *filename* | Name of the file to create. |

## cvmkfs

| Command | Options | Description |
|---|---|---|
| cvmkfs | | Initializes a StorNext FS.<br><br>WARNING: This command destroys any existing file system data for the file system (*file_system_name*). Use extreme caution when invoking cvmkfs. |
| | [ -G ] | Bypasses "Press return to continue..." type prompts. |
| | [ -F ] | Bypasses all verification prompts.<br><br>WARNING: Use this flag with extreme caution. |
| | [ -n #*k*, *m*, *g* ] | Pre-allocates inodes on StorNext FS. |
| | *file_system_name* | Name of the StorNext FS to initialize. |

## cvupdatefs

| Command | Options | Description |
|---|---|---|
| cvupdatefs | | Commits a StorNext FS configuration change. |
| | [ -f ] | Forces commit of the updated configuration.<br><br>WARNING: This option skips the confirmation step of cvupdatefs. Use this option with extreme caution. |
| | [ *FsName* ] | Specifies the file system (*FsName*) to update. |



| Command | Options | Description |
|---|---|---|
| | [ *FsPath* ] | Specifies a path (other than /usr/cvfs/data) to locate file systems. |

## cvversions

| Command | Options | Description |
|---|---|---|
| cvversions | | Displays StorNext client and server versions. |

## Windows GUI Commands (c:\cvfs\bin)*

| Command | Description |
|---|---|
| cvntadmin.exe<br><br>(StorNext FS Administrator GUI) | Starts and stops a StorNext FS. Views and modifies a file system and stripe group attributes.<br><br>**Start > Programs > StorNext FS > File System Administrator** |
| cvcfgadmin.exe<br><br>(StorNext FS Configuration Administrator) | Creates or modifies a StorNext FS configuration by changing the selected *file_system_name.cfg* file. This command is only available on the server where StorNext FS software is loaded. The command is not available on StorNext FS client machines.<br><br>**Start > Programs > StorNext FS > Disk Device Labeler** |
| cvntlabel.exe<br><br>(StorNext FS Disk Device Labeler) | Labels disk devices for use with a StorNext FS.<br><br>**Start > Programs > StorNext FS > Disk Device Labeler** |
| cvntclnt.exe<br><br>(StorNext FS Auto-Start Configuration) | Modifies the StorNext FS configuration files.<br><br>**Start > Programs > StorNext FS > File System Control Parameters** |
| instsvc.exe<br><br>(Start StorNext FS Services) | Starts up the background services needed by StorNext FS. Starts all file systems configured for auto-start.<br><br>**Start > Programs > StorNext FS > Start File System Services** |



| Command | Description |
|---|---|
| rmsvc.exe<br><br>(Stop StorNext FS Services) | Stops all StorNext FSs and shuts down background services needed by StorNext FS.<br><br>**Start > Programs > StorNext FS > Stop File System Services** |

*** Valid path if upgrading to StorNext FS 2.6 from a previous version. If installing StorNext FS 2.6 as an initial installation, the path is: c:\snfs\bin.**

Copyright © 1996-2005 by ADIC. All rights reserved.
6-00361-12 Rev A. ADIC Technical Assistance Center: in North America, call toll-free: 1-800-827-3822; in Europe, call toll-free: 00800-9999-3822; outside North America, go to the ADIC website at www.adic.com/contact for a complete list of toll-free numbers by country. Technical Support: www.adic.com/techsup.